CANADIAN BOARD OF EXAMINERS FOR PROFESSIONAL SURVEYORS

E1 - SPATIAL DATABASES & LAND INFORMATION SYSTEMS March 2014

Note:	This examination consists of 10 questions on 3 pages.		<u>Marks</u>	
<u>Q. No</u>	Time: 3 hours	Value	Earned	
1.	How is a spatial database different from a Land Information System? Give three functionalities of a spatial database and three functionalities of a Land Information System.	10		
	Which statement is TRUE? Please explain why.			
	a) Spatial indexes are used in spatial databases to get fast access to the objects in a particular area of a map.			
2.	b) Spatial indexes are not useful in searching for potentially overlapping or intersecting objects.	5		
	c) R-tree indexing is more appropriate than Quadtree indexing for searching point objects in a spatial database.			
	Select the correct answers to the following questions:			
	a. How is the HAVING clause used?			
	The HAVING clause specifies a search condition for an aggregate or a			
	group of attributes.			
	The HAVING clause is used to select distinct values of a column.			
	The HAVING clause is used to join 2 or more tables.			
	b. The SQL BETWEEN operator			
	specifies a range of values.			
	specifies which tables we are selecting from .			
	specifies that a column is a primary key.			
	c Which of the following SOL statements selects the total number of parcels	2.5		
3.	from the owner table below?	2.5		
		2.5		
	1 12/12/2010 13	2.5		
	2 13/12/1999 17			
	3 27/05/1930 21			
	SELECT SUM (ParcelNumber) FROM Owner.			
	SELECT AVG (ParcelNumber) FROM Owner .			
	SELECT COUNT(*) FROM Owner.			
	d. What follows after the SQL WHERE clause?			
	Definition of the condition to be met for the rows to be returned.			
	A list of columns to be selected.			
	The name of the table we are selecting from.			



